

DOCUMENT-IDENTIFIER: US 6225444 B1
TITLE: Neuroprotective peptides and uses thereof

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DEPR:

Based on the type of kinases and transcription factors effected by NMI 9236, predictions were made concerning the main signal transduction pathways switched on by the drug, and the types of gene products likely to be activated. Such gene products were then screened by Northern blot hybridization using probes unique to those specific mRNAs to monitor the steady state levels of specific mRNAs activated by NMI 9236 (Adams et al., J. Mol. Biol. 187:465-478, 1986; Adams et al., Gene 54:93-103, 1987). Several types of control experiments were carried out to establish that the stimulation by NMI 9236 is due to the peptide itself. The effect of the fatty acid carrier (DHA) was studied as one control.

DOCUMENT-IDENTIFIER: US 5969102 A

TITLE: Lymphocyte surface receptor that binds CAML, nucleic acids encoding the same and methods of use thereof

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DEPR:

Proteins that can interact with CAML are identified by using a two-hybrid screen (Fields & Song, 1989, supra); (Durfee et al., 1993, supra) with CAML as bait. To determine whether one of these identified CAML-binding proteins can affect Ca.sup.2+ signaling in T-cells, their ability to modulate the activity of the Ca.sup.2+ -dependent transcription factor NF-AT is examined [Truneh et al., Nature, 313:318-321 (1985)]; [Verweij et al., J. Biol. Chem., 265:15788-15795 (1990)]; [Karttunen & Shastri, Proc. Natl. Acad. Sci. USA, 88:3972-3976 (1991)]; [Emmel et al., Science, 246:1617-1620 (1989)]. Enforced over expression of the two-hybrid clones in Jurkat T-cells reveals that one clone (encoding the TACI-1 protein), replaced the requirement for Ca.sup.2+ influx, implying that TACI-1 lies in the same signal pathway as CAML. Northern blot analysis for TACI-1 mRNA demonstrates a 1.4 kb mRNA expressed only in spleen, small intestine, thymus and peripheral blood lymphocytes suggesting a limited expression of TACI-1 (FIG. 1). The pattern observed is consistent with

the expression of TACI-1 being predominantly in peripheral blood cells, since peripheral blood cells, and in particular lymphocytes, can be present in all of these organs (including the Peyer's patches lining the small intestine.) Furthermore, there is no detection of expression in colon, testis, ovary, or prostate. In addition, the TACI-1 protein is detected in all normal peripheral B lymphocytes using specific-antibody staining. There is no detectable protein expressed in peripheral T-lymphocytes, monocytes or neutrophils.